

## CLAIMS

What is claimed is:

1. An all terrain vehicle comprising:

5 a casing having an outer ring, a middle ring, and an inner ring, each ring having an axis perpendicular to the adjacent rings, the rings being attached to each other at defined connection points, the middle ring having a first pair of connection points, positioned at one hundred eighty  
10 (180°) degree intervals thereon, that are aligned with a pair of connection points on the outer ring, the middle ring also having a second set of connection points, positioned ninety (90°) degrees apart from the first pair of connection points, that are aligned with connection points on the inner ring;

15 a cradle positioned in the center of the vehicle, the cradle having an upper portion, a bottom portion, an upper rim extending around the upper portion, and a plurality of semicircle support members attached to the upper rim extending concavely from one side of the rim to the opposite  
20 side, said cradle attached to the inner ring at a set of connection points positioned ninety (90°) degrees apart from the middle ring connection points;

a propulsion system positioned within the cradle for producing a propulsive air force, wherein the weight of the  
25 propulsion system maintains the cradle in an upright position during movement of the vehicle; and

an outer shell extending around the casing and connected to the outer ring, the shell comprising a plurality of vertical and horizontal bars creating a protective web around the vehicle which do not significantly impede the propulsive  
5 air force.

2. The all terrain vehicle as recited in claim 1, wherein the inner ring has an outside diameter smaller than the inside diameter of the middle ring, and the middle ring has  
10 an outside diameter smaller than the inside diameter of the outer ring, this configuration allowing the rings to fit within each other and rotate freely without interference from the other rings.

3. The all terrain vehicle as receipted in claim 2, wherein the rings each have a bore positioned at each connection point, and a fastener inserted through each bore to attach  
15 the rings to each other, said fasteners allowing the rings to swivel at the connection points.

4. The all terrain vehicle as recited in claim 3, wherein the propulsion system comprises a motor, motor supports, a plurality of control surfaces, and a propeller mounted on the motor, wherein the propeller induces forward and backward  
20 movement, and the control surfaces control more precise movements of the vehicle.  
25

5. The all terrain vehicle as receipted in claim 4, further comprising a battery box secured to the bottom portion of the cradle, the battery box in communication with the propulsion system.

5

6. The all terrain vehicle as recited in claim 5, wherein the propulsion system further comprises four control surfaces arranged perpendicular to each other.

10 7. The all terrain vehicle as recited in claim 6, further comprising a seat positioned within the cradle for supporting an operator or passenger of the vehicle.

15 8. The all terrain vehicle as receipted in claim 7, wherein the vehicle is operated by a remote control device.